IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1)   (Currently Amended) A method of enhancing signals in a mobile telecommunications system, the system comprising a base station and first and second receivers within a reception zone of the base station, the method including:

a) receiving, from the base station, a first plurality of ~~first~~ signals at the first receiver, the first receiver having a good quality communications link with the base station;

b) receiving, from the base station, a second plurality of ~~second~~ signals at the second receiver;

c) correlating the received signals from both receivers to provide an estimated correlation therefor;

d) selecting areas from within the estimated correlation;

e) creating a replica of unwanted signals using said selection and said first plurality of ~~first~~ signals; and

f) enhancing said second plurality of ~~second~~ signals by eliminating said replica therefrom.

Claim 2)   (Currently Amended) ~~A~~ The method according to claim 1, wherein the estimated correlation comprises a correlation of propagation delay and frequency shift for the received signals.

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Claim 3)   (Currently Amended) ~~A~~The method according to claim 2, wherein step f) includes correlating said enhanced second plurality of ~~second~~ signals with said first plurality of ~~first~~ signals to produce an enhanced correlation.

Claim 4)   (Currently Amended) ~~A~~The method according to claim 3, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of ~~second~~ signals and the first plurality of ~~first~~ signals.

Claim 5)   (Currently Amended) ~~A~~The method according to claim 1, wherein step f) includes correlating said enhanced second plurality of ~~second~~ signals with said first plurality of ~~first~~ signals to produce an enhanced correlation.

Claim 6)   (Currently Amended) A method according to claim 5, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of ~~second~~ signals and the first plurality of first signals.

Claim 7)   (New) A system for defining propagation characteristics of a cell within a mobile telecommunications network, the system comprising:

a first receiver configured to receive a first plurality of signals from a base station on the mobile telecommunications network;

a second receiver configured to receive a second plurality of signals from the base station;

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means for generating an estimated correlation of the first and second pluralities of signals;

means for selecting an area from within the estimated correlation;

means for creating a replica of an unwanted signal using the selected area and the first plurality of signals; and

means for enhancing the second plurality of signals by eliminating the replica of the unwanted signal therefrom.

Claim 8)   (New) The system according to claim 7, wherein the estimated correlation comprises a correlation of propagation delay and frequency shift for the first and second pluralities of signals.

Claim 9)   (New) The system according to claim 8, wherein the means for enhancing the second plurality of signals further includes means for correlating an enhanced second plurality of signals with the first plurality of signals to produce an enhanced correlation.

Claim 10) (New) The system according to claim 9, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced second plurality of signals and the first plurality of signals.

Claim 11) (New) The system according to claim 7, wherein the means for enhancing the second plurality of signals further includes means for correlating an enhanced second plurality of signals with the first plurality of signals to produce an enhanced correlation.

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Claim 12) (New) The system according to claim 11, wherein the enhanced correlation

comprises a correlation of propagation delay and frequency shift for the enhanced second

plurality of signals and the first plurality of signals.